

Y26-D839

Y26-L897

Figure 1



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-255 cgaattcggggcgc
-240 gtcgaccgcnccagctcgggagacatgggggcggttaaagctctcgtggnattatcc
-180 ttcagtggggstattggactgacttttcttatgctgggagtgcccttagaggattatgga
-120 tttggcagttcacccctgaccatcttgaaaaataagttatctctgatctctgtctgtatgtt
-60 acttctctccctcaccaacggagaaacaaatgtgggcaaaagtgacttctctgaaagtaag
1 ATGATTTGTCAAAAATTCTGTGTGGTTTGTACATTGGGAATTATTATGTGATAACT
1 M I C Q K F C V L L H W E F I Y V I T
61 GCGTTTAACTTGTTCATATCCAATTACTCCTTGGAGATTTAAAGTTGTCTTGCATGCCACCA
21 A F N L S Y P I T P W R F K L S C M P P
121 AATTCAACCTATGACTACTTCCTTTTGGCTGGACTCTCAAAGAATACTTCAAATTCTG
41 N S T Y D Y F L L P A G L S K N T S N S

A-----A

Figure 2A



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A-----A

181 AATGGACATTATGAGACAGCTGTTGAACCTAAGTTTAATTCAAGTGGTACTCACTTTTCT
61 N G H Y E T A V E P K F N S S G T H F S
241 AACTTATCCAAACAACCTTTCCACTGTTGCTTTTCGGAGTGAGCAAGATAGAAACTGCTCC
81 N L S K T T F H C C F R S E Q D R N C S
301 TTATGTGCAGACAACATTGAAGGAAGGACATTTGTTTCAACAGTAAATTTCTTAGTTTTT
101 L C A D N I E G R T F V S T V N S L V F
361 CAACAAATAGATgCAAACTGGAACATACAGTGCTGGCTAAAGGAGACTTAAATTTATTC
121 Q Q I D A N W N I Q C W L K G D L K L F
421 ATCTGTTATGTGGAGTCATTATTTAAGAATCTATTCAGGAATTATAACTATAAGGTCAT
141 I C Y V E S L F K N L F R N Y N Y K V H

B-----B

Figure 2B



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B-----B

481 CTTTATATGTTCTGCCCTGAAGTGTAGAAAGATTACCTCTGGTTCCCCAAAAGGCAGT
161 L L Y V L P E V L E D S P L V P Q K G S
541 TTTCAGATGGTTCACTGCAATTGCAGTGTTTCATGATGTTGTCAATGTCCTTGTGCCCTGTG
181 F Q M V H C N C S V H E C C E C L V P V
601 CCAACAGCCAAACTCAACGACACTCTCCTTATGTGTTTGAAAATCACATCTGGTGGAGTA
201 P T A K L N D T L L M C L K I T S G G V
661 ATTTCCrGTCACCTCTAATGTTCAGTTTCAGCCCATAAATATGGTGAAGCCTGATCCACCA
221 I F X S P L M S V Q P I N M V K P D P P
721 TTAGGTTTGCATATGGAAATCACAGATGATGGTAATTTAAAGATTTCTTGGTCCAGCCCA
241 L G L H M E I T D D G N L K I S W S S P

C-----C

Figure 2C



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C-----C

781 CCATTGGTACCATTTCCACTTCAATATCAAGTGAATAATTCAGAGAAATTTCTACAACAGTT
261 P L V P P F P L Q Y Q V K Y S E N S T T V
841 ATCAGAGAAGCTGACAAAGATTGTCTCAGCTACATCCCTGCTAGTAGACAGTATACTTCTT
281 I R E A D K I V S A T S L L V D S I L P
901 GGGTCTTCGTATGAGGTTTCAGGTGAGGGGCAAGAGACTGGATGGCCCAAGGAATCTGGAGT
301 G S S Y E V Q V R G K R L D G P G I W S
961 GACTGGAGTACTCCTCGTGTCTTTACCACACAAGATGTCATATACTTTCCACCTAAAATT
321 D W S T P R V F T T Q D V I Y F P P K I
1021 CTGACAAGTGTGGGTCTAATGTTTCTTTTCACTGCACTATAAGAAAGGAAACAAGATT
341 L T S V G S N V S F H C I Y K K E N K I

D-----D

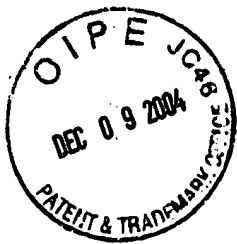
Figure 2D



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D-----D
1081 GTTCCCTCAAAAGAGATTGTTGGTGAGTGAATTTAGCTGAGAAAATTCCCTCAAAGCCAG
361 V P S K E I V W M N L A E K I P Q S Q
1141 TATGATGTTGTGAGTGATCATGTTAGCAAAGTTACTTTTTTCAATCTGAATGAAACCAA
381 Y D V V S D H V S K V T F F N L N E T K
1201 CCTCGAGGAAAGTTTACCTATGATGCAGTGCTACTGCTGCAATGAACATGAATGCCATCAT
401 P R G K F T Y D A V Y C C N E H E C H H
1261 CGCTATGCTGAATTATATGTGATTGATGTCAATATCAATATCTCATGTGAAACTGATGGG
421 R Y A E L Y V I D V N I N I S C E T D G
1321 TACTTAACATAAATGACTTGCAGATGGTCAACCAGTACAATCCAGTCACCTTGGGAAAGC
441 Y L T K M T C R W S T S T I Q S L A E S
E-----E

Figure 2E



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E ----- E
1381 ACTTTGCAATTGAGGTATCATAGGAGCAGCCCTTTACTGTTCTGATATTCCATCTATTTCAT
461 T L Q L R Y H R S S L Y C S D I P S I H
1441 CCCATATCTGAGCCCAAGATTGCTATTTGCGAGAGTGATGGTTTTTATGAATGCATTTTC
481 P I S E P K D C Y L Q S D G F Y E C I F
1501 CAGCCCAATCTTCCTATTATCTGGCTACACAAATGTGGATTAGGATCAATCACTCTCTAGGT
501 Q P I F L L S G Y T M W I R I N H S L G
1561 TCACTTGACTCTCCACCAACATGTGTCTTCCTGATTCTGTGGTGAAGCCACTGCCCTCCA
521 S L D S P P T C V L P D S V K P L P P
1621 TCCAGTGTGAAAGCAGAAATTACTATAAACATTGGATTATTGAAAAATATCTTGGGAAAAG
541 S S V K A E I T I N I G L L K I S W E K
F ----- F

Figure 2F



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F ----- F

1681 CCAGTCTTCCAGAGATAACCTTCAATTCAGATTCCGCTATGGTTTAAAGTGGAAGAA
561 P V F P E N N L Q F Q I R Y G L S G K E
1741 GTACAATGGAAGATGTATGAGGTTTATGATcCAAaACCAAAATCTGTCAGTCTCCCCAGTT
581 V Q W K M Y E V Y D P K P K S V S L P V
1801 CCAGACTTGTGTGCAGTCTATGCTGTTCAGGTGCGCTTTAAAGAGGCTAGATGGACTGGGA
601 P D L C A V Y A V Q V R F K R L D G L G
1861 TATTGGAGTAATTGGAGCAATCCAGCCTACACAGTTGTGATGGATATAAAAGTTCCTATG
621 Y W S N W S N P A Y T V M D I K V P M
1921 AGAGGACCTGAATTTGGAGAAATAATTAATGGAGATACTATGAAAAAGGAGAAAAATGTC
641 R G P E F W R I I N G D T M K K E K N V

G ----- G

Figure 2G



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G -----G

1981 ACTTTACTTTGGAAAGCCCTGATGAAAAATGACTCATGTGCAGTGTTCAGAGATATGTG
661 T L L W K P L M K N D S L C S V Q R Y V

2041 ATAAACCATCATACTTCCTSCAATGGAACATGGTCAGAAGATGTGGAAATCACACGAAA
681 I N H H T S X N G T W S E D V G N H T K

2101 TTCACTTTCCTGTGGACAGAGCAAGCACATACTGTTACGGTCTGGCCATCAATTCAATT
701 F T F L W T E Q A H T V T V L A I N S I

2161 GGTGCTTCTGTGCaAATTTTAACCTTTTCATGGCCtATGAGCAAAAGTAAATATC
721 G A S V A N F N L T F S W P M S K V N I

2221 GTGCAGTCACTCAGTGCTTATCCTTTAAACAGCAGTTGTGTGATTGTTTCCTGGATACTA
741 V Q S L S A Y P L N S S C V I V S W I L

H -----H

Figure 2H



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2281 TCACCCAGTGATTACAAGCTAATGTATTTTATTATTGAGTGGAAAAATCTTAATGAAGAT
761 S P S D Y K L M Y F I I E W K N L N E D

2341 GGTGAAATAAAAATGGCTTAGAATCTCTTCATCTGTAAAGAAGTATTATATCCATGATCAT
781 G E I K W L R I S S V K K Y Y I H D H

2401 TTTATCCCCATTGAGAAGTACCAGTTCAGTCTTTACCCAAATATTATGGAAGGAGTGGGA
801 F I P I E K Y Q F S L Y P I F M E G V G

2461 AAACCAAAGATAATTAATAGTTTCACTCAAGATGATATTGAAAAACACCAGAGTGATGCA
821 K P K I I N S F T Q D D I E K H Q S D A

2521 GGTTTATATGTAATTGTGCCAGTAATTATTTCCCTCTTCCATCTTATTTGCTTGGAACATTA
841 G L Y V I V P V I I S S I L L L G T L

Figure 21

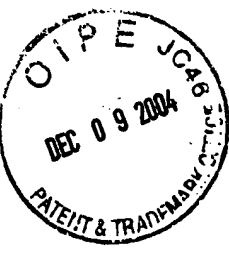


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2581 TTAATATCACACCAAGAATGAAAAAGCTATTTGGGAAGATGTTCCGAACCCCAAGAAT
861 L I S H Q R M K K L F W E D V P N P K N
2641 TGTTCTGGGCACAAGGACTTAATTTTCAGAAGAGAACGGACATTTCTTtgaagtctaattc
881 C S W A Q G L N F Q K R T D I L *
2701 atgactactacagatgaacccaatgtgccaaacttcccaacagtctatagagtattagaag
3761 atttttacatttttgaagaaggaggagcaaatctaaaaaaatttcagttgaaacttctgagag
2821 ttaacatatgttgattatgtttagaacttaaaatagatgtcatatttaaaccacaagt
2881 ttacatctaaactcagggtcaaaacctacacactaaattaaaagtttagtagattttcacaatt
2941 ttcatcataagtactaaaagaccgaaactaaaacagtataaaggaccagatttttgtaattc
3001 ttttaataccgacaaacgacagtaattgtatagataatttacagtagtttatcatcatctg
3061 ttaggacattaatccacttgagattttgacgtttagactgtttatcgaaattttttatgt
3121 tactaataattcataaccttagtcactttttataaaatcaaacataaaatacagggtttgaaaa
J.-----J

Figure 2J

|||||



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J.-----J

3181 ggtaaatctaaggaaatatctgtgcagtcggatttttagtcggataaagcccaagaaa
3241 acttatagaggaccgtaaaaacatagattgaaacaagttagacccttaaaagtcaaaagtt
3301 ataggaaacttttacccaattcactattgaaggcaaaagtcaattttccttcgggcttcaac
3361 acaaacacgacgggtgtcctgtcacccctcaatgtcaagtatagtcctactgggatgtatg
3421 ggccagtcctaactgccctgggtcttcccttgtagctgaagattacaggtgcgaaagaaca
3481 aattaactggatttagattaaatgaagggtgacttggtaggttctggagaccgtccgtc
3541 cctttacccgtcactasgttttttccctctgagaaacccctcgaaaaatacttatcaagtacc
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Figure 2K





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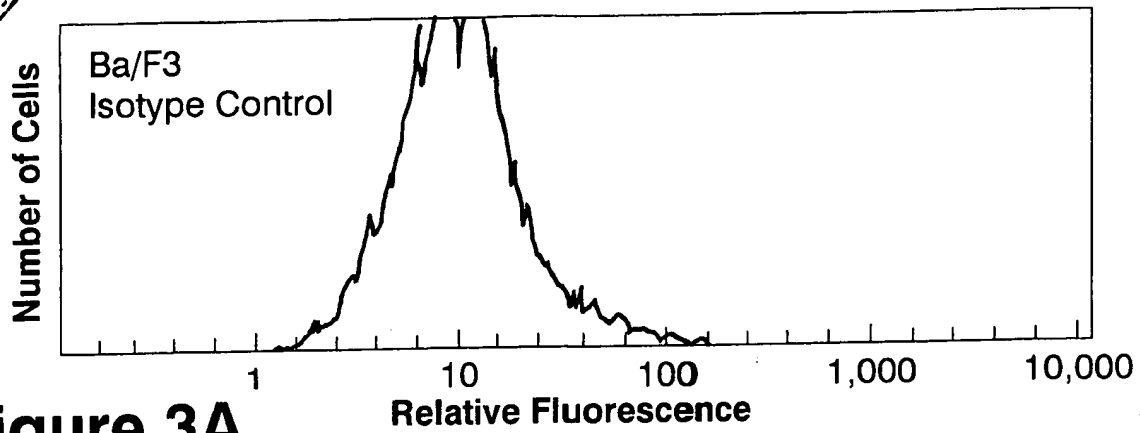


Figure 3A

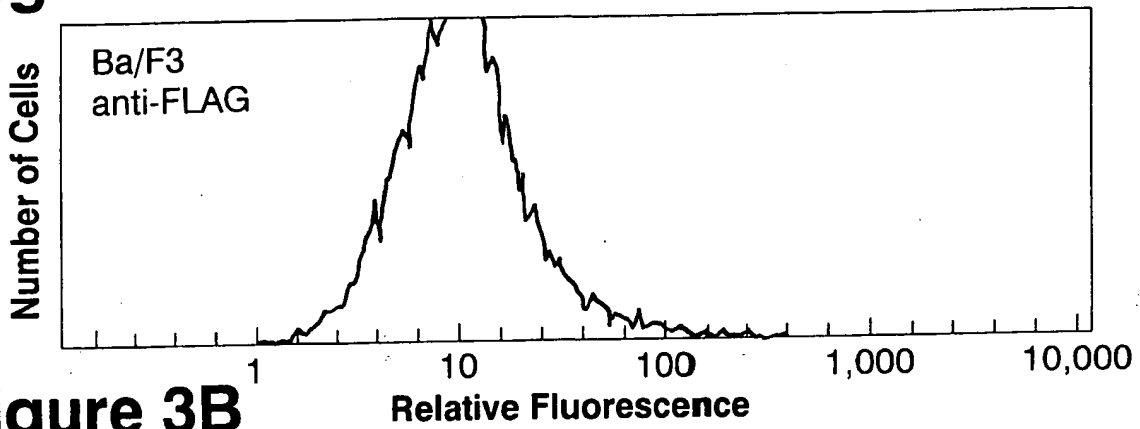


Figure 3B

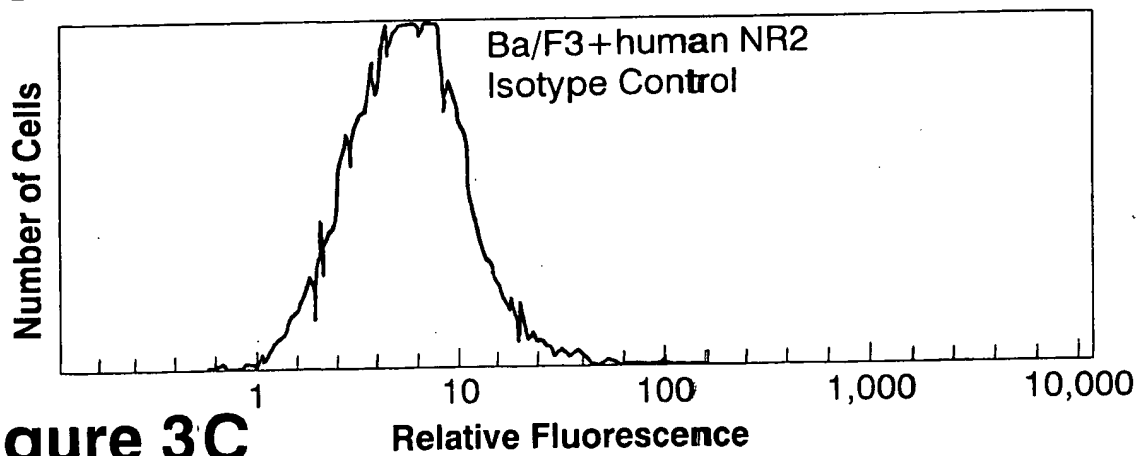
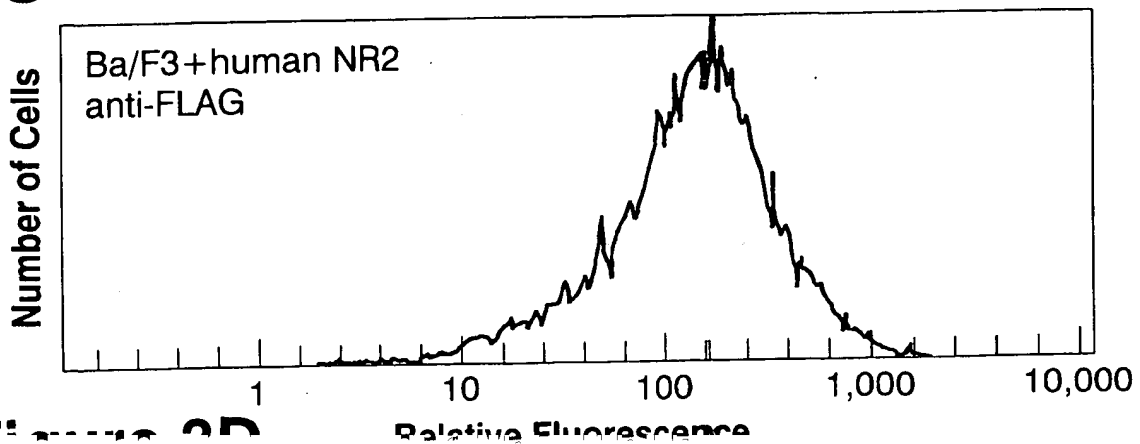


Figure 3C





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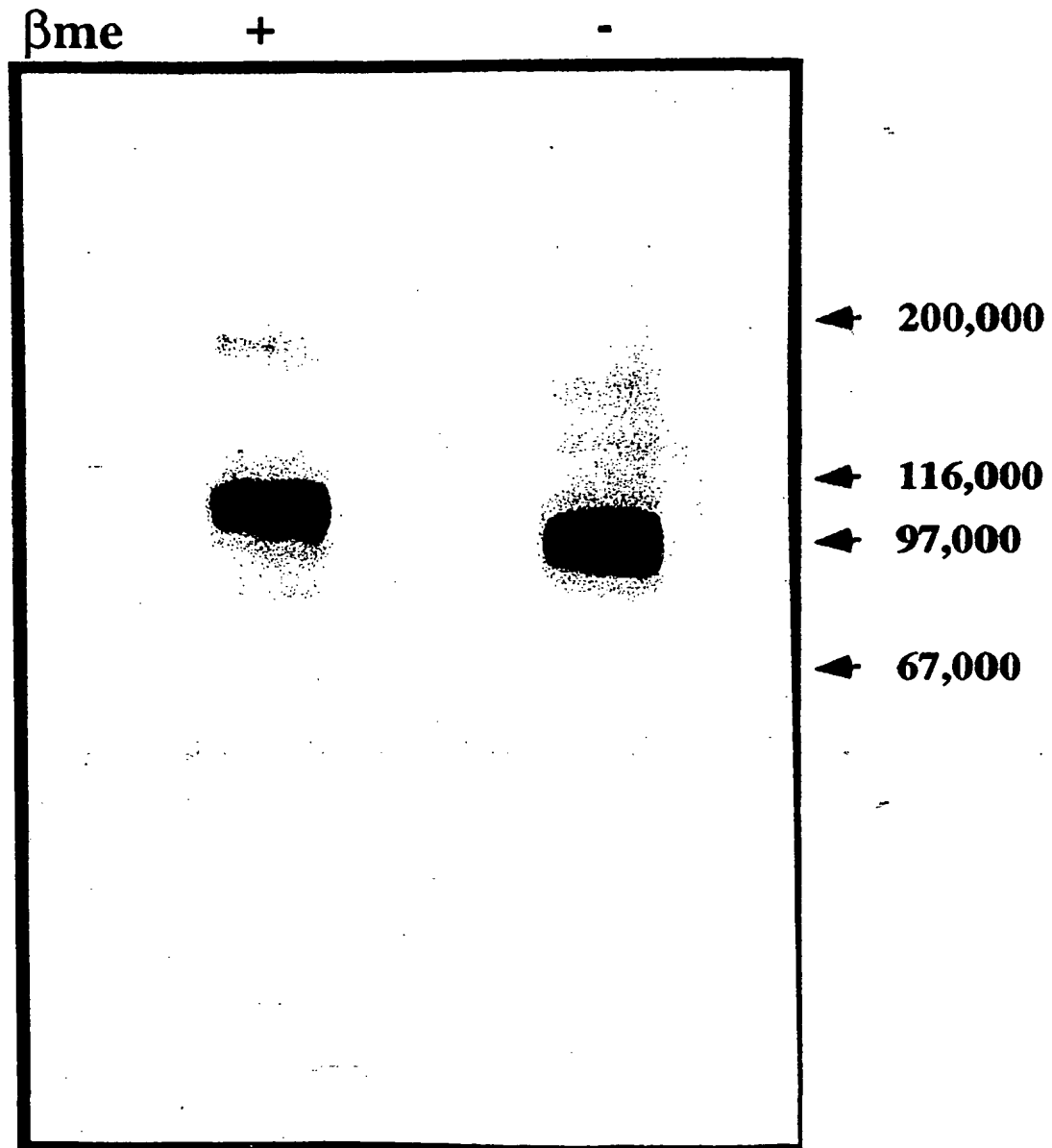


Figure 4



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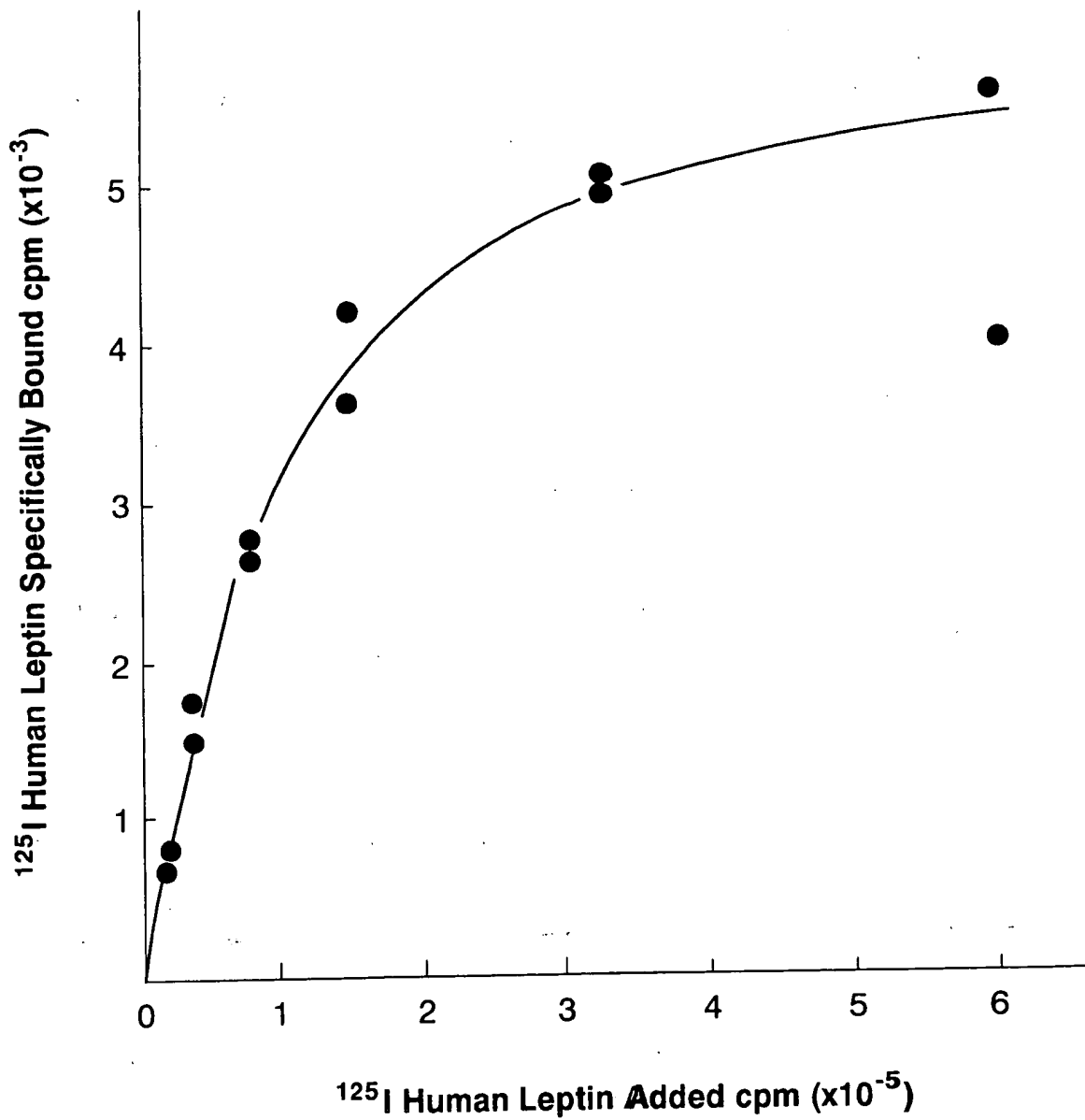


Figure 5A



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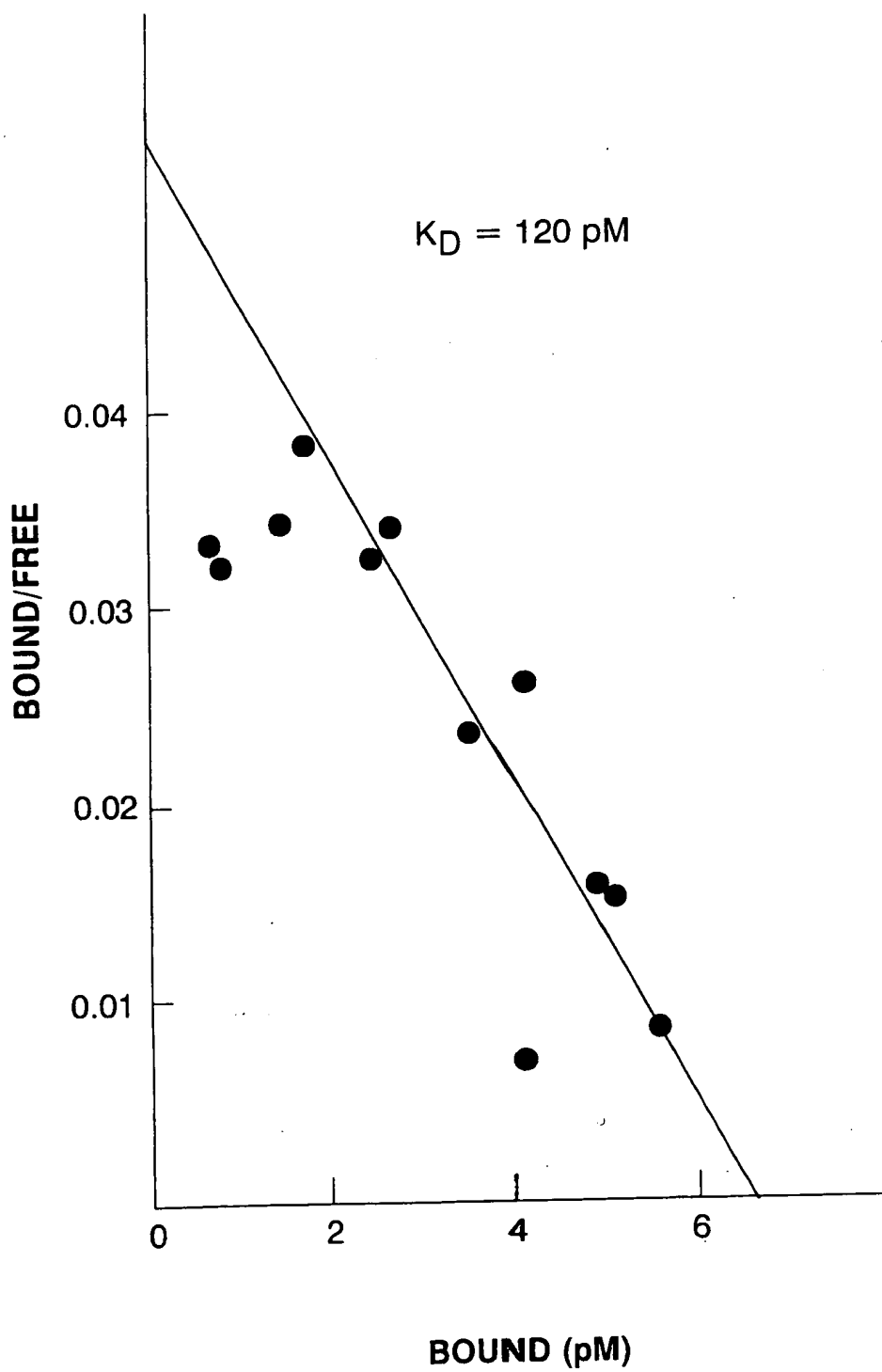


Figure 5B



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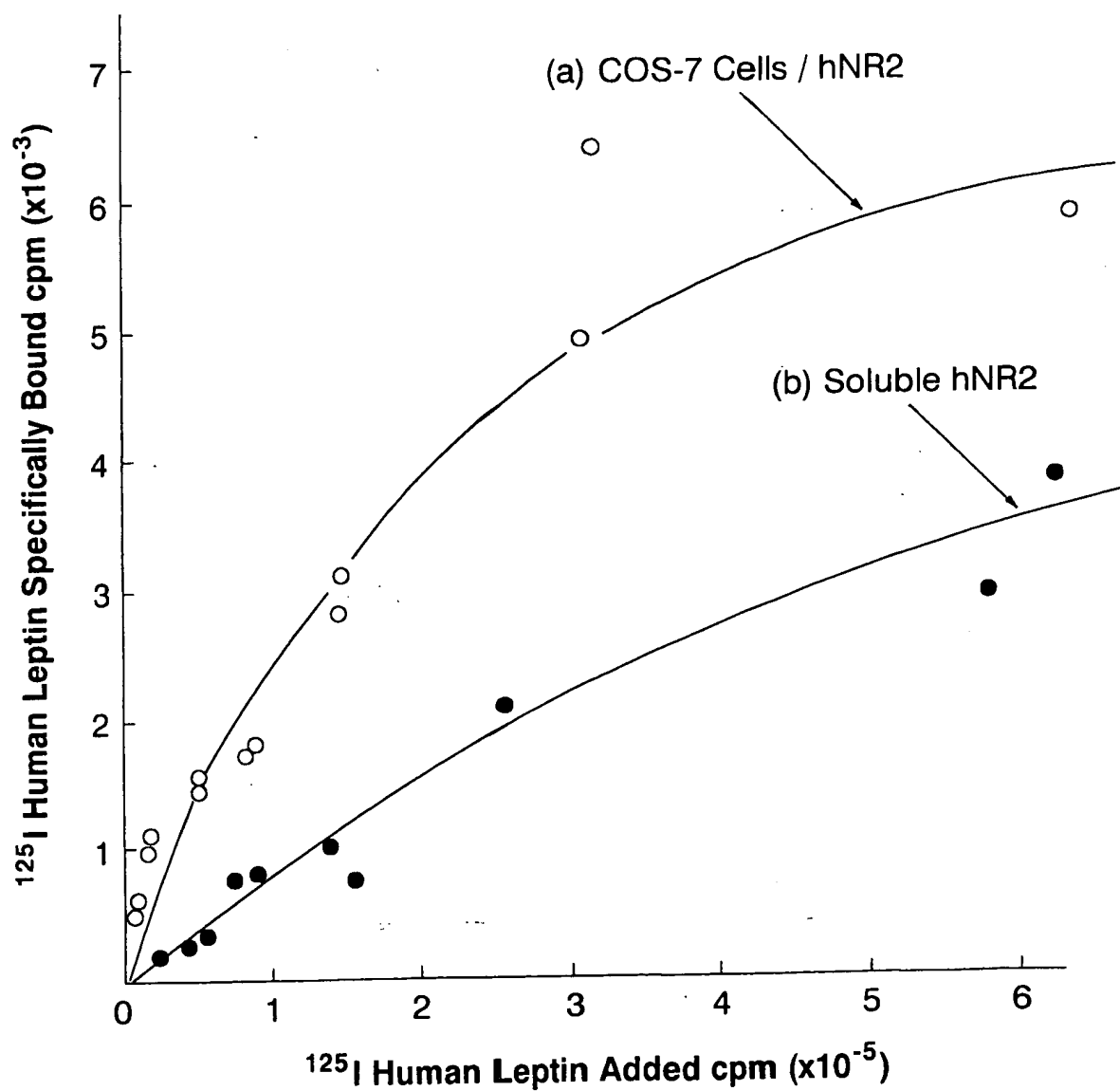
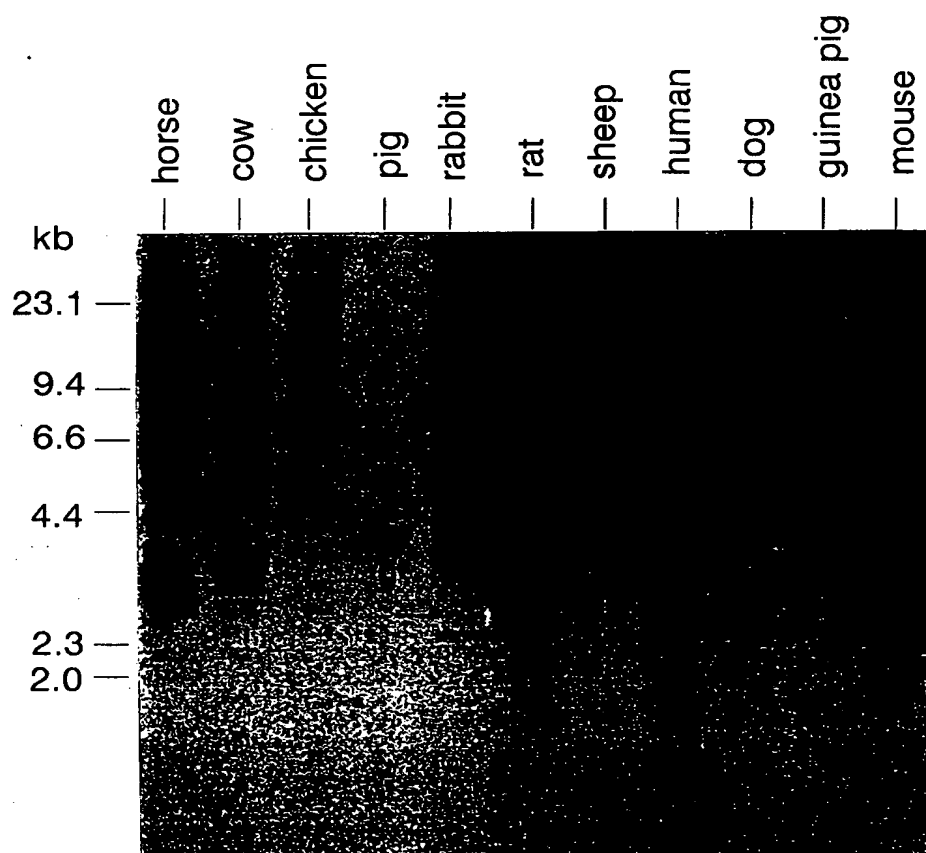


Figure 6



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Cross-species conservation of the NR-2 gene

Figure 7

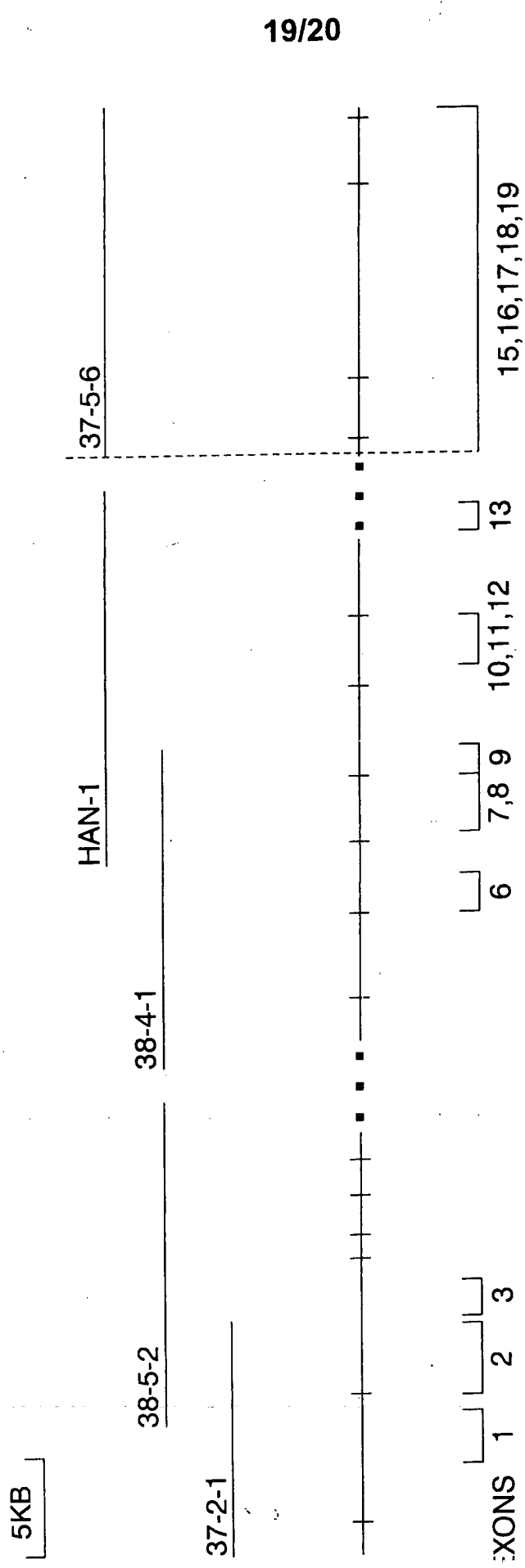
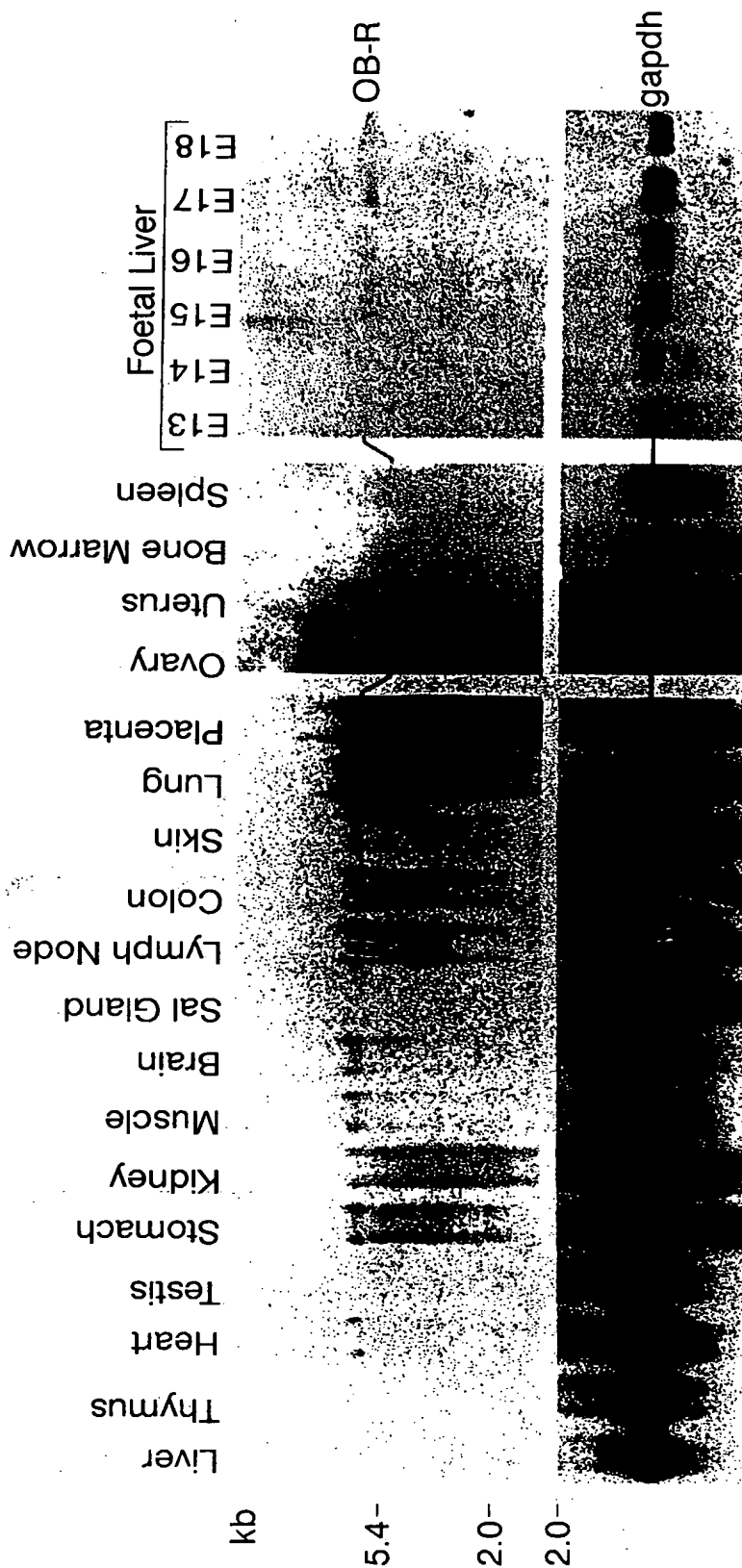


Figure 8



Expression of the Leptin Receptor (NR2) in murine tissues

Figure 9